

REFERENCES

- Abuhmaih, A. 2011. ICT training courses for teacher professional development in Jordan. *Turkish Online Journal of Educational Technology*, 10(4):195-210.
- Adams, S. 2005. A strategy for technology training as part of a master's program conducted at a school site. *Journal of Technology and Teacher Education*, 13(3), 493-514.
- Adedjei OA. 2010. The Development of Modern Information and Communications technology in Ibadan: Creative Educational Publications Ltd. p. 58
- Afshari, M., Bakar, K.A., Luan, W.S., Samah, B.A., and Fooi, F. S. 2009. Factors affecting teachers' use of Information and Communication Technology. *International Journal of Instruction*, 2(1):78-98.
- Ageel, M. 2011. The ICT proficiencies of university teachers in Saudi Arabia: A case study to identify challenges and encouragements. *Hummingbird: University of Southampton's Doctoral Research Journal*, 2, 55-60.
- Akkerman, S., Admiral, W., Brekelmans, M. and Oost, H. 2006. Auditing quality of research in social sciences. *Quality and Quantity*, 42(2): 57-68
- Albirini, A. 2006. Teachers' attitudes toward information and communication technologies. *Journal of Computer & Education*, 47: 373-398.
- Almekhlafi, A. G., and Almeqdadi, F. A. 2010. Teachers' Perceptions of Technology Integration in the United Arab Emirates School Classrooms. *Educational Technology & Society*, 13 (1), 165-175.
- Alwani, A. E. S., and Soomro, S. 2010. Barriers to effective use of information technology in science education at Yanbu, Kingdom of Saudi Arabia. In S. Soomro (Ed.), *E-learning experiences and future*, 35-46.
- Andoh, C. B. 2012. An Exploration of Teachers' Skills, Perceptions and Practices of ICT in Teaching and Learning in the Ghanaian Second-Cycle Schools. *Contemporary Educational Technology*, 3(1), 36-49.

- Angeli, C., and Valanides, N. 2008. *TPCK in Pre-service Teacher Education: Preparing Primary Education Students to Teach with Technology*. Paper Presented at the Annual Meeting of the American Educational Research Association, New York City, March 24-28, 2008.
- Ashinida A., Afendi H. and Mohd. S.Y., 2004. Penggunaan PBBK (Pembelajaran Bahasa Berbantuan Komputer) dalam pengajaran dan pembelajaran Bahasa Arab sebagai bahasa asing: Satu tinjauan awal. *Online Journal of Language Studies (GEMA)*.
- Askar, P., Usluel, Y.K. and Mumcu, F.K. 2006. Logistic regression modeling for predicting task- related ICT use in teaching. *Educational Technology & Society*. **9**(2):141-151.
- Baek, Y.G., Jong, J., and Kim, B. 2008. What makes teachers use of technology in the classroom? Exploring the factors affecting facilitation of technology with a Korean sample. *Computers and Education*. **50**(8): 224-234.
- Bakar, A. R., and Mohamed, S. (2008). Teaching using information and communication technology: Do trainee teachers have the confidence? *International Journal of Education and Development using Information and Communication Technology (IJEDICT)*, 4(1), 5-12.
- Balanskat, A., Blamire, R., and Kafal, S. 2007. A review of studies of ICT impact on schools in Europe European School net.
- Barak, M. 2006. Instructional principles for fostering learning with ICT: teachers' perspectives as learners and instructors. *Education Information Technology*.
- Bauer, J., and Kenton, J. 2005. Technology integration in the schools: Why it isn't happening. *Journal of Technology & Teacher Education*. **13**: 519-526.
- Bell, J., 2005. *Doing Your Research Project – A guide for first-time researchers in education, health and social science*. Berkshire: Open University Press.

- Bingimlas, K. A. 2009. Barriers to the successful integration of ICT in teaching and learning environments: A review of the Literature. *Eurasia Journal of Mathematics Science and Technology Education*, 5(3), 234-245.
- Brinkerhoff, J. 2006. Effects of a long-duration, professional development academy on technology skills, computer self-efficacy and technology integration beliefs and practices. *Journal of Research on Technology in Education*. **39**(1): 22-43
- Bustos, H., and Nussbaum, M. 2009. An experimental study of the inclusion of technology in higher education. *Computer Applications in Engineering Education*, 17(1), 100-107.
- Chen, W., Tan, A., and Lim C. 2012. Extrinsic and intrinsic barriers in the use of ICT in teaching: A comparative case study in Singapore. *Proceedings of ASCILITE- Australian Society for Computers in Learning in Tertiary Education Annual Conference*, 191-196.
- Chen, Y.-C., and Chen, Y.-C. 2008. Teachers' characteristics and advanced technology proficiency. *International Journal of Applied Educational Studies*, 2(1), 49–61.
- Chigona, A., and Chigona, W. 2010. An investigation of factors affecting the use of ICT for teaching in the Western Cape schools. *18th European Conference on Information Systems*, 71-84
- Clausen, J. M. 2007. Beginning teachers' technology use: First-year teacher development and the institutional context's affect on new teachers' instructional technology use with students. *Journal of Research on Technology in Education*. **39**(3):245–261.
- Cohen, L. Manion, L., and Morrison, K., 2007. *Research Methods in Education*, London: Routledge.
- Collis, B., and Jung, I. (2003). Uses of information and communication technologies in teacher education. In B. Robinson & C. Latchem (Eds.), *Teacher education through open and distance learning* 171-192.

- Cowie, B. and Jones, A. 2005. *Digital Horizons: Laptops for teachers evaluation study* http://www.minedu.govt.nz/web/downloadable/dl8568_v1/laptop-leaders-report-12-9-with-edits-ds.doc
- Creswell, J.W. and Miller, D.L. 2000. Determining validity in qualitative inquiry. *Theory into Practice*, 39, (3), 124-130.
- Creswell, John W. 1998. *Qualitative inquiry and research design: Choosing among five traditions*. Thousand Oaks, CA: Sage.
- Cronk, B.C., 2012. *How to use SPSS (7th Ed.)*. Glendale, CA: Pyrczak Publishing.
- Diehl, D.E. 2005. A study of faculty-related variables and competence in integrating instructional technologies into pedagogical practices. *Unpublished doctoral dissertation*. Texas Southern University. Environment And Planning B-Planning & Design. **33**(3): 393-412
- Doering, Aaron, Hughes, Joan, and Hoffman, Doug. 2003. Preservice teachers: Are we thinking with technology? *Journal of Research on Technology in Education*, **35**(3): 342–361.
- Embedded Learning Academy, 2008. 21st Century Teaching and Learning Series. Retrieved from www.embeddedlearningacademy.com/pde/21.
- Ertmer P. A. 2005. Teacher pedagogical beliefs: the final frontier in our quest for technology integration? *Educational Development Research and Development*, **53**: 25–39.
- Eteokleous, N. 2008. Evaluating computer technology integration in a centralized school system. *Computers & Education*, 51(2), 669–686.
- Franklin, C. 2007. Factors that influence elementary teachers' use of computers. *Journal of Technology and Teacher Education*, 15(2):267–293.
- Gorder, L. M. 2008. A study of teacher perceptions of instructional technology integration in the classroom. *Delta Pi Epsilon Journal*. **50**(2):63-76.

- Grassel, E. and Schirmer, B., 2006. The use of volunteers to support family careers of dementia patients: results of a prospective longitudinal study investigating expectations towards and experience with training and professional support. *Zeitschrift Fur Gerontologie Und Geriatrie*. **39** (3): 217-226.
- Gülbahar, Y. 2007. Technology planning: A roadmap to successful technology integration in schools. *Computers & Education*. **49**(4): 943-956.
- Gulsecen, S. and Kubat, A. 2006. Teaching ICT to teacher candidates using PBL: A qualitative and quantitative evaluation. *Educational Technology & Society*. **9**(2): 96-106.
- Hennessy, S., Ruthven, K., and Brindley, S. 2005. Teacher perspectives on integrating ICT into subject teaching: commitment, constraints, caution, and change. *Journal of Curriculum Studies*, 37, 155–192.
- Hew, K. F., and Brush, T. 2007. Integrating technology into K-12 teaching and learning: current knowledge gaps and recommendations for future research. *Educational Technology Research and Development*. **55**: 223-253.
- Hooper, S., and Rieber, L. 1999 . *Teaching, instruction, and technology*. In A.C. Ornstein and L.S. Behar-Horenstein (Eds.), *Contemporary issues in curriculum* (2nd ed.,: 252-264). Boston, MA: Allyn and Bacon.
- Inan, F. A., and Lowther, D. L. 2010. Laptops in the K-12 classrooms: exploring factors impacting instructional use. *Computers & Education*, 55(3), 937–944.
- Jang, S.-J. 2006. The effects of incorporating web-assisted learning with team teaching in seventh-grade science classes. *International Journal of Science Education*, 28(6), 615–632.
- Johnson, M.P., 2006. Decision models for the location of community corrections centers. *Environment And Planning B-Planning & Design* 33 (3): 393-412
- Judd, T. and Kennedy, G. 2001. Extending the role of audit trails: A modular approach. *Journal of Educational Multimedia and Hypermedia*, 10(4), 377-395.

- Kay, R. H. 2006. Evaluating strategies used to incorporate technology into pre-service education: A review of the literature. *Journal of Research on Technology in Education*. **38**(4): 383–408.
- Keengwe, J., and Onchwari, G. 2008. Computer technology integration and student learning: Barriers and promise, *Journal of Science Education and Technology*. **17**: 560– 565.
- Koch, T. 2006. Establishing rigour in Qualitative Research: the decision trail. *Journal of Advanced Nursing*. **53** (1): 91-103.
- Kumar, R. 2008. Convergence of ICT and education. *World Academy of Science, Engineering and Technology*. **40**: 556-559.
- Latio, G. 2010. Examination of factors that influence computer technology use for classroom instruction by teachers in Ohio public high schools. Dissertation Abstracts International Section A, 70, Retrieved from EBSCOhost.
- Lau, K. H. 2006. Integration of ICT in the teaching of science: An investigation of 45 primary school teachers. Unpublished Master's Thesis. Faculty of Education, Open University Malaysia, Kuala Lumpur.
- Laurillard, D. 2007. Preface. In H. Beetham, & R. Sharpe (Eds.), *Rethinking pedagogy for a digital age: Designing and delivering e-learning*. London: Routledge.
- Lawless, K., and Pellegrino, J. 2007. Professional development in integrating technology into teaching and learning: Knowns, unknowns and ways to pursue better questions and answers. *Review of Educational Research*. **77**(4): 575-614.
- Lever-Duffy, J. McDonald, J.B. and Mizell A. P., 2005. *Teaching and learning with technology*. 2nd ed. San Francisco: Pearson.
- Levin, T., and Wadmany, R. 2008. Teachers views on factors affecting effective integration of information technology in classroom: Developmental scenery. *Journal of Technology and Teacher Education*. **16** (2): 233-236

- Liaw, S. S. 2002. An Internet survey for perceptions of computers and the World Wide Web: relationship, prediction, and difference. *Computers in Human Behavior*. **18** (1): 17-35.
- Light, D. 2011. Do web 2.0 right. *Learning & Leading with Technology*, 38(5), 10–12.
- Lim, C. P., and Chai, C. S. 2008. Teachers' pedagogical beliefs and their planning and conduct of computer-mediated classroom lessons. *British Journal of Educational Technology*. **39**(5): 807–828.
- Liu, S.-H. 2010. Correlation between teachers' pedagogical beliefs and teaching activities on technology integration. In: Global learn Asia Pacific 2010-Global Conference on learning and technology. May 17–20, 2010. Penang, Malaysia.
- Mahani, W. 2006. Usage of electronic information sources and services by teachers at smart schools in Selangor: Towards developing digital resource centre. A *Dissertation submission, University of Malaya, Kuala Lumpur*.
- Marcinkiewicz, Heinrich. 1991. The Relationships of Selected Personological Variables To the Use of Available Microcomputers by Elementary School Teachers. Doctoral dissertation, The Pennsylvania State University.
- Mayrath, M. C., Traphagan, T., Jarmon, L., Trivedi, A., and Resta, P. 2010. Teaching with virtual worlds: Factors to consider for instructional use of second life. *Journal of Educational Computing Research*, 43(4), 403–444.
- McCombs, B. L. 2000. Assessing the role of educational technology in the teaching and learning process: A learner-centred perspective. *Paper presented at the Secretary's Conference on Educational Technology*, **11**: 82-96
- Merriam, S. B. 1998. Qualitative research and case study applications in education. San Francisco, CA: Jossey-Bass.
- Ministry of Education, 2001. Educational development 2001–2010. Kuala Lumpur: Government of Malaysia.

- Mohamed Zaki, F. Z. 2013. ICT and internet usage in early childhood education: A comparative study of Australian and Malaysian teachers' beliefs and current practices. Master Thesis, Queensland University of Technology, Australia.
- Mohd Sofi Ali, 2002. Professional development of ESL teachers in Primary School. *Jurnal Pendidikan IPBA*. **2**(5): 43-62.
- Mohd. Jasmy Abd. Rahman, Mohd. Arif Ismail and Norsiat Razali. 2003. Tahap kesediaan penggunaan perisian kursus di kalangan guru Sains dan Matematik. *Prosiding Konvensyen Teknologi Pendidikan* **16**:372-380.
- Mueller, J., Wood, E., Willoughby, T., Ross, C., and Specht, J. 2008. Identifying discriminating variables between teachers who fully integrate computers and teachers with limited. integration. *Computers & Education*. **51**(4): 1523-1537.
- Multimedia Development Corporation. 2005. The Smart School Roadmap 2005-2010: An Educational Odyssey. Malaysia: Multimedia Development Corporation.
- Nussbaum, M., Alvarez, C., McFarlane, A., Gomez, F., Claro, S., and Radovic, D. 2009. Technology as small group face-to-face Collaborative Scaffolding. *Computers&Education*, 52(1), 147–153.
- Nut, J. 2010. Professional educators and the evolving role of ICT in schools: Perspective report <http://www.ictliteracy.info/rf.pdf/ICTinSchools.pdf> (12 November 2011).
- OECD, 2001. Learning to change: ICT in schools, Paris: OECD.
- Ofsted, 2002. 'ICT in schools .*The impact of government initiatives five years on*', London: Ofsted.
- Pac, R. L. 2008. Factors that influence technology use during instructional time. Unpublished master's thesis, Walden University, Minneapolis.
- Park, C. N., and Son, J.-B. 2009. Implementing computer-assisted language learning in the EFL classroom: teachers' perceptions and perspectives. *International Journal of Pedagogies & Learning*, 5(2), 80–101.

- Peralta, H., and Costa, F. A. 2007. Teacher's competence and confidence regarding the use of ICT. *Sísifo: Educational Sciences Journal*, 3, 75–8
- Plair, S. 2008. Revamping professional development for technology integration and fluency. *The clearing house*. **82**(2): 70-74.
- Redecker, C. 2009. Review of learning 2.0 practices: Study on the impact of Web 2.0 innovations on education and training in Europe. JRC Scientific and Technical Reports. European Commission: Luxembourg.
- Robiah Sidin, Juhana Salim and Nor Sakinah Mohamed. 2003. Pembudayaan teknologi maklumat dan komunikasi di kalangan pelajar Melayu dalam arus globalisasi. Laporan Akhir Penyelidikan Arus Perdana II. Universiti Kebangsaan Malaysia.
- Rosnaini M. and Mohd A.I., 2009. Integrating Eduwebtv into Malaysian schools: Challenges ahead. In S.L. Wong, Mas Nida Md Khambari, Abu Daud Silong and Othman Talib (Eds.), *Technology and Education – Issues, Empirical and Applications*, 47-58.
- Rubin, H., and Rubin, I., 2005. *Qualitative interviewing: The art of hearing data* (2nd Ed.). Thousand Oaks, CA: Sage.
- Rutherford, J. 2004. Technology in the schools. *Technology in Society*, **26**: 149-160.
- Schoepp, K. 2005. Barriers to technology integration in a technology-rich environment. *Learning and Teaching in Higher Education: Gulf Perspectives*, 2(1), 1-24.
- Schrum, Lynne, Mary D. Burbank and Rosemary Capps. 2007. Preparing Future Teachers for Diverse Schools in an Online Learning Community: Perceptions and Practice. In *The Internet and Higher Education*, 10, 204-211.
- Scott, W. R. 1965, *Field Methods in the Study of Organizations*, Handbook of Organizations, Rand McNally College Publishing Company, Chicago, USA. 261 – 304.
- Seale, C. 1999. *The quality of qualitative research*, Sage Publications, London, UK.

- Slaouti, D. and Barton, A. 2007. Opportunities for practice and development: newly qualified teachers and the use of information and communication technologies in teaching foreign languages in English secondary school contexts. *Journal of In-service Education*. **33**(4):19.
- Smart School Project Team. 1997. Smart School flagship application: The Malaysian Smart School – A conceptual blueprint. Kuala Lumpur: Ministry of Education.
- Smith, M., and Glass, G. 1987. *Research and evaluation in the social sciences*. Englewood Cliffs, NJ: Prentice-Hall.
- Somekh, B. 2008. Factors affecting teachers' pedagogical adoption of ICT. In J. Voogt & G. Knezek (Eds.), *International handbook of information technology in primary and secondary education*, 449-460.
- Thang, S. M., Murugaiah, P., Lee, K. W., Hazita Azman, Tan, L. Y. and Lee, Y. S. 2010. Grappling with technology: A case of Supporting Smart School teachers' professional development. *Australasian Journal of Educational Technology*. 26(3), 400-416.
- Tomei, L. A. 2005. *Taxonomy for the technology domain*. USA: Information Science Publishing.
- Tondeur, J., Hermans, R., van Braak, J. and Valcke, M. 2008. Exploring the link between teachers' educational belief profiles and different types of computer use in the classroom. *Computers in Human Behaviour*, 24: 2541-2553.
- UNESCO, 2002. *Elementary ICT curriculum for teacher training*. Moscow: UNESCO.
- Washington State. 2005. *Washington State Educational Technology Plan: A Blueprint for Washington's K-12 Common Schools and Learning Communities Educationaltechnology*. <http://osd.wednet.edu/media/departments/technology/technology/edtechplan05full.pdf>

- Wepner, S., Tao, L., and Ziomek, N. 2006. Broadening our view about technology integration: Three literacy educators' perspectives. *Reading Horizons*. **46**(3): 215-237.
- Windschitl, M. and Sahl, K. 2002. Tracing Teachers' Use of Technology in a Laptop Computer School: The Interplay of Teacher Beliefs, Social Dynamics, and institutional Culture. *American Educational Research Journal*, 39, 165-205.
- Wozney, L., Venkatesh, V., and Abrami, P.C. 2006. Implementing computer technologies: Teachers' perceptions and practices. *Journal of Technology and teacher education*. **14**(1): 173-207.
- Yin, R. 2003. Case study research: design and methods, (3rd eddition). Sage Publications, Thousand Oaks, CA.
- Yin, R. K. 2009. Case study research: Design and methods (4th Ed.). Thousand Oaks, CA: Sage.
- Yin, R.K., 1984. Case Study Research: Design and Methods. Beverly Hills, Calif: Sage Publications.
- Zailin Shah Yusoff. 2010. Evaluating the impact of feedback given via wikis on ESL students' reports. (Unpublished doctoral dissertation). International Islamic University Malaysia, Gombak.